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NATIONAL COMMUNICABLE DISEASE CENTER

# Morbidity and Mortality

Vol. 17, No. 11

WEEKLY
REPORT

Week Ending
March 16, 1968

# U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

PUBLIC HEALTH SERVICE

BUREAU OF DISEASE PREVENTION AND ENVIRONMENTAL CONTROL

# EPIDEMIOLOGIC NOTES AND REPORTS MALARIA OUTBREAK - Ceylon

Since early 1967, Ceylon (1966 estimated population

11,784,000) has experienced progressively higher numbers DA Library Trends
of malaria cases each month. In late 1967, the outpreak
reached epidemic proportions.

Ceylon had been among the most productive of the rational programs that collectively make up the worldville malaria eradication program. A long history of endemiciant sevice epidemic malaria led to control efforts beginning 1911. These efforts were periodically enlarged especially after the 1934-35 epidemic which afflicted 1.5 million copie DOCU and caused perhaps 80,000 deaths. A comprehensive pro-

CONTENTS

gram for the national control of malaria was launched in 1945. This control program and the subsequent Anti-Malariac ampaign (AMC) were successful in controlling malaric unit in nearly achieving eradication during the years of the pread DDT spraying, up to 1963. In April 1963, where r, DDT coverage was withdrawn except for half-mile (Continued on page 94)

TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

(Totals include revised and delayed reports)

	·	<u>`</u>				
	11th WEE	K ENDED	MEDIAN	CUMULA'	Γ1VE, F1R	ST 11 WEEKS
DISEASE	March 16, 1968	MARCH 18, 1967	1963 - 1967	1968	1967	MED1AN 1963 - 1967
Aseptic meningitis	33	40	34	298	307	307
Brucellosis		4	6	12	40	47
Diphtheria		_	4	29	28	42
Encephalitis, primary:						
Arthropod-borne & unspecified	11	22		158	238	
Encephalitis, post-infectious	8	25		92	131	
Hepatitis, serum	81	36	859	744	397	9.045
Hepatitis, infectious	863	822	809	9,022	8,648	9.045
Malaria	26	47	2	491	434	23
Measles (rubeola)	688	2,834	11,535	6,245	24,507	94,594
Meningococcal infections, total	85	60	80	920	662	667
Civilian	78	59		841	614	
Military	7	1		79	48	
Mumps				55,618		
Poliomyelitis, total		1	3	11	3	5
Paralytic		1	3	11	3	4
Rubella (German measles)		1,531		10,550	10,586	
Streptococcal sore throat & scarlet fever		13,302	13,302	126,750	134,347	122,627
Tetanus		4	2	22	33	37
Tularemia		2	3	16	25	47
Typhoid fever		1	2	42	56	63
Typhus, tick-borne (Rky. Mt. spotted fever) .		~	_	3	8	6
Rabies in animals	54	84	93	768	863	8 2 3

### TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.	
Anthrax: Botulism: Leptospirosis: Plague: Psittacosis: Tenn1	3 -	Rabies in man: Rubella, Congenital Syndrome: Trichinosis: Typhus, murine:*	3 6	

<sup>\*</sup>Delayed Reports: Texas 2 cases 1967

MALARIA - (Continued from front page)

barriers around jungle areas; even this partial coverage was discontinued in April 1964.

Malaria surveillance activities have been extensive with Annual Blood Examination Rates of up to 15 percent. The reduced incidence of malaria is evident in the number of malaria cases detected annually from 1958 through 1966 (Table 1). The effectiveness of attack measures on Plasmodium vivax, especially, is evident in the classification of cases caused by this parasite (Table 2). The 1965 case of indigenous P. vivax malaria, the first in Ceylon in 35 months, was intensively investigated, but no additional cases were found. In January 1966, two more cases were found in a village 20 miles away from the original case; later that year, four additional cases were found.

Table 1 Canfirmed Cases of Malaria in Ceylan, 1958-1966

				Cases		
Year	Slides Examined	P.	P. falci- parum	P. mala- riae	Mixed Infec- tions	Total
1958	63,886	781	251	3	2	1,037
1959	305,740	1,126	456	8	6	1,596
1960	596,033	376	39	7	_	422
1961	786,307	76	13	20	1	110
1962	1,028,622	14	16	1	_	31
1963	949,919	8	5	4	_	17
1964	1,213,133	13	63	73	1	150
1965	1,247,808	19	189	100	****	308
1966	1,455,259	27	161	310	1	499

Table 2 Classification of Plasmadium vivax Malaria Cases, 1962-1966

Year	Indigenous Cases	Imported Cases	Total Cases
1962	10	4	14
1963	()	8	8
1964	0	13	13
1965	1	18	19
1966	6	21	27

In 1967 additional cases of P. vivax malaria were reported in the same central region of the country, and in October, P. vivax malaria was present in a gem mining area which attracted many transient gem miners. In spite of efforts to control the disease and to restrict population movements in and out of the gem mining area, P. vivax infections continued to increase in 1967 and also to spread extensively to other parts of Ceylon. Quarterly case counts for 1967 (Table 3) demonstrate the increased incidence of P. vivax malaria. All but nine of these 3,026 P. vivax infections were indigenous.

Table 3 Canfirmed Cases of Malaria 1967°

Quarter	P. vivax	P.fal- ciparum		Alixed Infections	Total Cases
First	26	17	168		211
Second	93	73	37		203
Third	689	76	35	1	501
Fourth	2,218	25	გ	-	2,251
Totai	3,026	191	248	1	3,466

<sup>\*</sup>A total of 4,453,954 slides were examined in 1967.

In the first 2 months of 1968, the malaria incidence continued to rise (Table 4). Although the number of P. falciparum cases is still small, the focal outbreak of this disease in January and February is now potentially very dangerous because the AMC is already severely stressed by their efforts to control the P. vivax malaria epidemic. As in most epidemic situations the actual number of cases far exceeds the number of diagnostically confirmed cases. A feature of this epidemic has been the low mortality. So far only two deaths have been reported. This seems to indicate that action has been prompt and effective. Surveillance activities continue at a high level and the Central Laboratory in Colombo-which is in the non-malaria, unaffected area of Ceylon-has been enlarged, and two regional laboratories have been opened. In 1968, 24 spraying units were added to the 18 units in operation at the end of 1967. In addition, the AMC has prepared plans for spraying residual insecticide to all houses in the malarial areas. With the end of the peak transmission season (in much of the affected area) in March, the incidence of malaria may soon be reduced. However, it is fully recognized that substantial long term efforts will be required to regain control of malaria in Ceylon.

Table 4 Canfirmed Cases of Malaria January and February 1968

Month		P. vivax	P. falciparum	P. malariae	Total Cases
January	169,132	16,851	88	.1	16,943
February	189,105	42,056	104	1	42,161

(Report prepared with the assistance of the Department of Health Services, Colombo, Ceylon, and by two Malaria Eradication Program Epidemiologists, \CDC.)

### CURRENT TRENDS TUBERCULOSIS BEDS IN HOSPITALS AND SANATORIA, 1967

A biennial survey\* of the major hospital resources available in the United States for the care of tuberculosis

patients shows that on June 30, 1967, there were 43,069 beds assigned for tuberculosis in 348 hospitals (Table 5). On that day 30,028 of these beds were occupied. Included in the survey were 267 non-federal hospitals and

<sup>\*</sup>Tuberculosis beds in hospitals and sanatoria, June 30, 1967, NCDC, Tuberculosis Program.

81 federal facilities with tuberculosis patients, and six non-federal hospitals in Puerto Rico and the Virgin Islands.

Table 5
Hospital Facilities far the Care of Tuberculosis
United States, June 30, 1967

		Number of	TB Beds
Area	Number of Hospitals	Rated Capacity	Beds Occupied
Total United States	348	43,069	30,028
Non-Federal <sup>1</sup>	267	37,208	25,172
Federal	81	5,861	4,856
Puerto Rico and the Virgin Islands	6	1,867	1,278

With 10 or more tuberculosis beds.

Only non-federal hospitals with a complement of 10 or more tuberculosis beds were included in the survey. Federal hospitals in the survey represent all available tuberculosis beds reported by the United States Public Health Service, Division of Indian Health, Department of the Air Force, Department of the Army, Department of the Navy, and the Veterans Administration.

In the past 4 years, there has been a reduction of 47 non-federal and 14 federal hospitals providing care for tuberculosis patients. Some of the hospitals that discontinued services for tuberculosis patients were closed in their entirety; others converted their facilities to chronic, mental, other chest diseases, and treatment of alcoholics.

Use of tuberculosis hospital beds has declined steadily since 1948. Utilization of tuberculosis beds in non-federal hospitals was 71 percent in 1967.

(Reported by Statistical Services Unit, Tuberculosis Program, NCDC.)

### SUMMARY OF REPORTED CASES OF INFECTIOUS SYPHILIS

CASES OF PRIMARY AND SECONDARY SYPHILIS: BY REPORTING AREAS FEBRUARY 1968 AND FEBRUARY 1967 - PROVISIONAL DATA

			Cumu1	ative				Cumu	lative
Reporting Area	Febru	ary	January-	February	Reporting Area	Febr	uary	January-1	February
	1968	1967	1968	1967		1968	1967	1968	1967
NEW ENGLAND	42	36	65	69	EAST SOUTH CENTRAL	111	163	223	322
Maine	-	-	-	-	Kentucky	8	7	21	16
New Hampshire	-	2	-	3	Tennessee	29	18	51	42
Vermont	-	-	-	2	Alabama	48	89	99	192
Massachusetts	34	21	48	40	Mississippi	26	49	52	72
Rhode Island	4	2	4	4			1	1	'-
Connecticut	4	11	13	20	WEST SOUTH CENTRAL	280	244	548	505
			_		Arkansas	11	11	21	22
MIDDLE ATLANTIC	267	243	536	569	Louisiana	62	55	124	97
Upstate New York	11	16	26	38	Oklahoma	8	8	14	24
New York City	175	147	337	328	Texas	199	170	389	
Pa. (Excl. Phila.)	24	14	46	54	TCAMO I I I I I I I I I I I I I I I I I I I	199	170	389	362
Philadelphia	28	24	55	44	MOUNTAIN	5.3		0.0	
New Jersey	29	42	72	105	Montana		46	88	103
		72	12	103	Idaho	-	1	1	1
EAST NORTH CENTRAL	276	218	544	464	Wyoming	2	4	2	7
Ohio	57	49	90	99	Colorado	-	-	1.7	
Indiana	. 27	7	46	12		10	2	11	12
Downstate Illinois	15	10	35	22	New Mexico	11	15	21	32
Chicago	89	58			Arizona	26	24	46	51
Michigan			191	134	Utah	-	-	-	-
Wisconsin	86	93	180	192	Nevada	4	-	7	-
WISCONSIN	2	1	2	5					
ECC HODGE CENTER AT				1	PACIFIC	133	142	247	297
VEST NORTH CENTRAL	29	17	44	43	Washington	2	7	6	11
Minnesota	6	5	6	7	Oregon	5	3	6	7
Iowa	2	1	2	4	California	125	131	233	275
Missouri	16	6	23	14	Alaska	-	-	-	1
North Dakota	-	-	-	-	Hawaii	1	1	2	3
South Dakota	3	2	4	7					
Nebraska	2	3	8	6	U. S. TOTAL	1,627	1,622	3,183	3,390
Kansas	-	-	1	5	TERRITORIES	0.0			
						82	72	149	122
SOUTH ATLANTIC	436	513	888	1,018	Puerto Rico	73	69	132	117
Delaware	5	4	5	8	Virgin Islands	9	3	17	5
Maryland	42	47	89	113					
District of Columbia	49	56	128	103					
Virginia	17	27	33	51					
West Virginia	8	-	8	2					
North Carolina	65	63	117	130	Note: Cumulative Total:	sinclude	revised a	nd delayed	repor
South Carolina	49	67	97	142	through previous	months.			Lepot
C+1-	62	83	133	169					
Ceorgia	0.4		1 177	103					

### CURRENT TRENDS MEASLES

A total of 672 cases of measles was reported to NCDC for the week ending March 16, 1968. This is 24 percent of the cases reported for the comparable week in 1967. To date, a total of 6,245 cases has been reported

for the first 11 weeks of 1968; this is 25 percent, 8.3 percent, and 6.6 percent of the cases reported for the corresponding periods in the years 1967, 1966, and 1965, respectively.

(Continued on page 100)

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# TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

# FOR WEEKS ENDED MARCH 16, 1968 AND MARCH 18, 1967 (11th WEEK)

NEW ENGLAND 2 1 1 5 38 33 33 Markes 3 3							ENCEPHALIT	IS		HEPATITIS		
1968	AREA			BRI CELLOSIS	DIPHTRERIA	incl	uding		Serum	Infec	tious	MALARIA
UNITED STATES. 33 40 2 - 11 22 8 8 81 865 822  NEW EMGLAND 2 1 1 5 38 33 84 865 822  NEW EMGLAND 2 1 1 5 38 33 84 865 822  NEW EMGLAND 3 8 8 81 865 822  NEW TORK CONTROLLED TO THE STATES AND		1968	1967	1968	1968			1968	1968	1968	1967	1968
Maine	UNITED STATES									863	822	26
Maine						,	1	,	_	20	2.2	,
New Mangashtre.										1		1 -
Vermont				1						1		_
Massachusetts 1 1 1 19 9 9 Rhode Island 1 1 1 19 9 9 Connecticut 1 1 1 1 19 9 9 Connecticut 1 1 7 9 9 10 20 20 20 20 20 20 20 20 20 20 20 20 20										1		_
Rede Esland 1 1 1 7 7 9 7 1 1 1		_	_	_	-			1	1	19		_
MIDDLE ATLANTIC.   2   4   -		-	-	-	-	1	1	-		ľ	9	1
MIDDLE ATLANTIC. 2 4 - 4 3 - 19 125 134 New York City 2 - 3 2 - 16 32 45 New York City 1 - 1 32 45 New York City 2 - 3 2 - 16 32 45 New Jork. Upstate 1 - 1 2 2 21 33 New Jetsey. 2 3 2 2 - 16 New York City 2 3 2 2 - 16 New Jork. Upstate 1 3 288 322 Pennsylvania 1 3 288 322 North Ohio. 1 1 2 55 Nichigan. 1 15 10 Illinois. 2 1 18 19 WEST NOOTH CENTRAL 1 18 19 WEST NOOTH CENTRAL 1 18 19 WEST NOOTH CENTRAL 1		-	-	-	-	1	-	-	4		11	_
New York City, - 2 - 3 2 - 14 32 45 New York Office State												
New Jersey					-							8
New Jersey 2 3 *28 2 22 1 3 *28 2 22 1 3 *28 2 22 3 *28 2 22 44 4 36	,				-							-
Pennsylvania 1 - 1 44 36  EAST NORTH CENTRAL. 6 2 - 2 7 - 2 159 160  Ohio. 1 1 1 - 2 6 - 42 43  Indiana. 1 15 10  Illinois. 2 1 55 32  Michigan. 2 15 12  Misconsin 1			1	-	-		_	**				1
EAST NORTH CENTRAL. 6 2 - 2 7 - 2 159 160 Ohio. 1 1 1 - 2 6 6 - 42 43 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			- 1	_				_				5 2
Ohio	Pennsylvania	_	1	_	_	1	-	_		44	30	
Ohio	ST NORTH CENTRAL	6	2	-	-	2	7	-	2	159	160	_
Indicana			1	-	-			-			43	-
Illinois			_	-	-			-	-		10	-
Misconsin         -         -         -         1         -         2         29         36           Wisconsin         -         -         -         -         18         19           WEST NORTH CENTRAL         -         -         -         -         -         1         3         16         6         85           Missouri         -         -         -         -         -         -         7         16         6         85         6         85         16         6         85         16         6         85         16         6         85         16         6         85         16         16         6         85         16         16         6         85         16         16         6         85         16         16         6         85         16         16         16         16         19         -		2	1	-	-	-	-	-	-	55	52	-
WEST NORTH CENTRAL		2	-	-	-	-	1	-	2		36	-
Minesota		-	-	-	-	-	-	-	-	18	19	-
Minesota	CT NORTH OFFI						2	,	2	10	0	
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Missouri         -         -         1         -<	1		-	-	-	-	ļ.					1
North Dakota		_	_	1	_	_	1	-	_			_
South Dabota		-		-			1					1
Nebraska		_	_	_	_	_	_	_	_	_	_	_
Kansas		_	_	_	-	_	_	_	_	-	4	_
Delaware	Kansas	-	_	-	-	-	-	-	-	3		-
Delaware												
Maryland.       1       1       -       -       1       -       1       -       1       -       1       -       1       -       1       -				-	-	-	3	1	2		103	6
Dist. of Columbia.				-	-	-						-
Virginia				-	-	-						-
West Virginia.         -         3         -         -         -         -         -         6         13           North Carolina.         1         -         -         -         -         -         1         10					-	-			-			-
North Carolina.					_	-			-			-
South Carolina.					_							4
Georgia					_							-
Florida			_	_	_	_	_	_	_	8		2
Kentucky.       -       -       -       -       -       -       36       11         Tennessee.       3       1       -       -       -       1       23       11         Alabama.       6       4       -       -       -       -       1       23       11         Mississisppi.       3       -       -       -       -       1       -       -       5       7         WEST SOUTH CENTRAL.       2       4       -       -       -       2       1       1       64       74         Arkansas.       -       <		4	2	-		-	1	-	-		15	-
Kentucky.       -       -       -       -       -       -       36       11         Tennessee.       3       1       -       -       -       1       23       11         Alabama.       6       4       -       -       -       -       1       23       11         Mississisppi.       3       -       -       -       -       1       -       -       5       7         WEST SOUTH CENTRAL.       2       4       -       -       -       2       1       1       64       74         Arkansas.       -       <												
Tennessee	ST SOUTH CENTRAL	12	5	-	- !	-	1	-	1	68	35	-
Alabama 6 4 4 6 6 Mississippi 3 1 4 6 6 Mississippi 3 1 5 7 7				-	-	-	-	-				-
Mississippi 3 1 5 77  WEST SOUTH CENTRAL 2 4 2 1 1 1 64 74  Arkansas 3  Louisiana 1 2 1 1 - 1 17  Oklahoma 1 1 1 - 1 17  Texas 1 1 1 * 1 1 *16 5  MOUNTAIN 1 1 1 48 34  Montana 1 1 1 48 34  Montana 1 7  Wyoming 1 7  Wyoming 1 7  New Mexico 1 7  Arizona 1 7  New Mexico 1 7  New Mexico 1 7  New Mexico 1 1 7  New Maxico 1 1 1 1 1 1 1 1				-	-			-	1			-
WEST SOUTH CENTRAL. 2 4 2 1 1 64 74 Arkansas 1 1 64 74 Louisiana 1 2 1 1 - 1 17 Oklahoma - 1 1 1 17 Oklahoma - 1 1 1 17 Texas. 1 1 1 * 1 1 - 31 49  MOUNTAIN 1 1 1 48 34 Montana 1 1 1 48 34 Montana 1 7 Wyoming 1 7 Wyoming 1 7 New Mexico 1 7 1 7 New dexico 1 1 7 New dexico 1 1 7 New dexico 1 1 1 1 1 1 New dexico 1 1 1 1 1 1 New dexico 1 1 1 1 1 1 1 California 4 14 1 1 - 3 2 3 3 44 203 134				-	- !			-				-
Arkansas	Mississippi	3	_	_	- !	-	1	-	-	5	/	-
Arkansas	ST SOUTH CENTRAL	2	4			_	2	1	1	64	74	1
Louisiana. 1 2 1 1 7 17 17 Oklahoma - 1 - 1 1 - 11 - 11 - 11 5 5 Texas. 1 1 1 1 * 1 1 1 1 48 34 49				-	-	_		-		-	3	-
Oklahoma.       -       1       -       -       1       -       -       16       5         Texas.       1       1       *-       -       -       -       1       -       31       49         MOUNTAIN.       -       -       -       -       -       1       1       48       34         Montana.       -       -       -       -       -       -       -       2       3         Idaho.       -       -       -       -       -       -       -       1       7       1       7       1       7       1       7       1       7       1       7       1       7       1       7       1       7       1       1       7       1       1       7       1		1	2	-	-	-	1	_	1	17	17	1
Texas		-		-	-	_		_	_		5	-
MOUNTAIN.       -       -       -       -       -       1       1       48       34         Montana.       -       -       -       -       -       -       -       2       33         Idaho.       -       -       -       -       -       -       -       1       7         Wyoming.       -       -       -       -       -       -       -       -       3       2         Colorado.       -       -       -       -       -       -       -       -       3       2         New Mexico.       -<		1	1	*-	-	_	-	1	-		49	-
Montana       -       -       -       -       -       2       3         Idaho       -       -       -       -       -       -       1       7         Wyoming       -       -       -       -       -       -       -       -       3       2         Colorado       -       -       -       -       -       1       7       1       7       1       7       1       7       1       7       1       1       6       8       8       8       8       6       8       8       6       8       6       8       6       8       6       8       8       6       8       8       6       8       8       6       8       8       6       8       8       6       9       8       6       9       8       6       9       9       1       <	- 1											
Idaho				-	-				1		34	3
Wyoming.       -       -       -       -       -       -       3       2         Colorado.       -       -       -       -       -       1       7       1         New Mexico.       -       -       -       -       1       -       6       8         Arizona.       -       -       -       -       -       -       -       -       20       6         Utah.       - <t< td=""><td></td><td></td><td></td><td>]</td><td> </td><td></td><td></td><td></td><td>-</td><td></td><td></td><td>-</td></t<>				]					-			-
Colorado				ì	-							-
New Mexico.     -     -     -     -     -     6     8       Arizona.     -<					_							3
Arizona												-
Utah					_						6	_
Nevada		-	-	-	-	-	-	-	-		6	-
Washington 2 2 25 12 Oregon 1 14 13 California 4 14 1 - 3 2 3 44 203 134		-	-	-	-	-	-	-	-		1	-
Washington 2 2 25 12 Oregon 1 14 13 California 4 14 1 - 3 2 3 44 203 134												
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Alacka												4
Alaska						-	-	-	-		5	-
^)										.,,		
Puerto Rico 1 26 21	erto Rico	1	_	-	_	-		_		26	21	-

\*Delayed reports: Aseptic Meningitis: N.Y. Ups. 1 case 1967
Brucellosis: Tex. 1 case 1967
Hepatitis, infectious: N.Y. Ups. 1, N.J. delete 1 case, Okla. 5, Ariz. 10, Hawaii 4

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# TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

### FOR WEEKS ENDED

MARCH 16, 1968 AND MARCH 18, 1967 (11th WEEK) - CONTINUED

		MARCH	10, 1908 AT	ND MARC	n 16, 1907	(IIII) WEL	K) - CONT	INUED			
	MEA	SLES (Rube	ola)	MENINGO	COCCAL INF	ECTIONS,	MUMPS	Р	OLIOMYELIT	is	RUBELLA
AREA		Cumu1	ative		Cumu l	ative		Total	Para	lytic	
	1968	1968	1967	1968	1968	1967	1968	1968	1968	Cum. 1968	1968
UNITED STATES	688	6,245	24,507	85	920	662	5,666	2	2	11	2,376
NEW ENGLAND	54	306	262	2	43	24	677	_	_	_	327
Maine	*1	10	48	-	2	1	*48	-	-	-	*35
New Hampshire	5	46 5	63 20	_	2	1 -	17 26	-	_		_
Vermont Massachusetts	30	156	83	-	22	12	369	-	-	-	162
Rhode Island	1 17	3 86	21 27	- 2	4 12	10	*122 95	-	-		130
Connecticut	17	00	21	2	12	10	93	_	_	_	130
MIDDLE ATLANTIC	130 27	812 149	773 119	27 12	159 61	83 15	238 77	-	-	-	168
New York City New York, Up-State.	67	447	169	4	14	25	NN	_	_	_	84 33
New Jersey	*31	160	215	10	45	32	161	-	-	-	48
Pennsylvania	5	56	270	1	39	11	NN	-	-	-	3
EAST NORTH CENTRAL	149	1,635	1,982	11	89	61	1,698	#	-	-	1,157
OhioIndiana	3 21	112 250	298 · 226	1 2	20 12	25 5	162 175	-	-	_	53 10
Illinois	65	724	314	4	20	13	264	Ī	-	-	997
Michigan	4	100	441	4	28	13	547	-	-	-	35
Wisconsin	56	449	703	-	9	5	550	-	-	-	62
WEST NORTH CENTRAL	13	130	1,082	1	39	32	930	-	-	-	102
Minhesota Iowa	1 -	3 38	46 216	_	6 3	5 6	45 694	-		-	1 91
Missouri	3	9	29	1	7	9	39	-		-	-
North Dakota	4	51	452	-	2	-,	65	-	-	-	6
South Dakota Nebraska	<b>-</b> 5	3 19	38 301	_	4 4	7	NN 18	-	_	_	2
Kansas	-	7	NN	-	13	1	69	-	-	-	2
SOUTH ATLANTIC	39	472	2,437	12	194	135	262	_	_	_	113
Delaware	2	4	20	1	1	5	44	-	-	-	-
Maryland	3 -	35 4	49 8	1 2	12	18	23 5	_	-	-	41
Dist. of Columbia Virginia	8	95	678	-	14	11	30	_	_	_	26
West Virginia	12	123	482	1	4	12	97	-	-	-	15
North Carolina South Carolina	5 -	50 16	554 60	1 1	42 39	28 9	NN 16	_	_	-	15
Georgia	-	3	9	2	34	28	-	-	-	-	-
Florida	9	142	577	3	41	24	47	-	-	-	16
EAST SOUTH CENTRAL	15	115	2,858	9	71	65	285	-	-	-	42
Kentucky	3	40	937	3 5	27	18	*103	-	-	-	11
Tennessee	8	16 30	864 601	-	20 12	28 12	158 22	-	_	-	17 14
Mississippi	4	29	456	1	12	7	2	-	-	-	-
WEST SOUTH CENTRAL	162	1,510	9,089	7	192	117	380	1	1	5	116
Arkansas	-	-	1,184	-	10	10	-	-	_	-	-
Louisiana	4	1 47	50 2,740	2 *1	46 39	46	1 6	_	_	-	2
Oklahoma Texas	158	1,462	5,115	4	97	54	373	1	1	5	114
MOUNTAIN	39	326	1,489	2	12	16	340	_	_	_	60
MOUNTAIN	-	62	174	-	1	-	11	-	_	_	-
Idaho	- 1	10	159	-	2	1	9	-	-	-	4
Wyoming Colorado	13	31 110	12 371	- 2	- 6	- 7	28 144	-	-	-	22
New Mexico	4	36	205	-	-	3	23	-	-	- '	3
Arizona Utah	*20 1	73   2	319 85	-	1 _	2 1	*119 6	-	-	-	*31
Nevada	-	2	164	-	2	2	-	-	-	_	-
PACIFIC	87	939	4,535	14	121	129	856	1	1	6	291
Washington	21	2 <b>7</b> 5	2,292	3	19	10	193	-	-	-	87
Oregon	13	220	522	1	11	10	17	- shak 2	- steet-1	-	25
California Alaska	51 -	421	1,606 64	9	82	107 2	584 6	**1	**1	6	165 8
Hawaii	2	23	51	. 1	9	_	56	-	-	-	6
Puerto Rico	12	104	713	1	13	7	8	-	-	-	-
							·				

\*Delayed reports: Measles:

Measles: Me. 1, N.J. 1, Ariz. 14 Meningococcal infections: Okla. 1

Mumps: Rubella:

\*\*Poliomyelitis, paralytic:

Me. 9, R.I. 74, Ky. 49, Ariz. 68 Me. 9, Ariz. 14 Calif. 1 case out of state

# Morbidity and Mortality Weekly Report

# TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED

### MARCH 16, 1968 AND MARCH 18, 1967 (11th WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETA	ANUS	TUL	AREMIA	TYP	HOID	TICK	S FEVER -BORNE . Spotted)		IES IN
		1040	Cum.		Cum.	1040	Cum.		Cum.		Cum.
IIII TED CELEDO	1968 12,010	1968	1968 22	1968	1968 16	1968	1968 42	1968	1968	1968	1968
UNITED STATES	12,010	2	22	1	10	4	42	_	3	54	768
NEW ENGLAND	1,933	-	-	-	-	-	2	-	-	5	22
Maine	*47	-	- '	-	-	-	-	-	-	5	22
New Hampshire	3	-	-	-	-	-	-	-	-	-	-
Vermont	41	-	-	-	-	-	-	-	-	-	-
Massachusetts	291	-	- '	-	-	-	1	-	-	-	-
Rhode Island Connecticut	168 1,383	-		_		_	1	-		-	_
							_				
MIDDLE ATLANTIC	465	-	5	-	-	-	6	-	-	1	8
New York City	33	-	3	-	-	-	4	-	-	- :	-
New York, Up-State.	367	-	2	-	-	-	1	-	-	-	4
New Jersey	NN	_	-	-	-	-	-	-	-	Ī	-
Pennsylvania	65	-	-	-	-	-	1	-	-	1	4
EAST NORTH CENTRAL	1,405	-	2	-	3	2	7	-	_	3	42
Ohío	393	-	-	-	1	1	5	-	-	-	20
Indiana	225	-	-	-	-	-	-	-	-	1	8
Illinois	200	-	1	-	1	-	1	-	-	2	6
Michigan	306	-	1	-	1	-	-	-	-	-	3
Wisconsin	281	-	-	-	-	1	1	-	-	-	5
WEST NORTH CENTRAL	722	_	1	_	4	_	2	_	_	7	146
Minnesota	63	_	_	_	_	_	_	_		2	38
Iowa	178	-	-	_	_	_	_	_	-	1	34
Missouri	41	-	1	-	2	-	2	-	-	1	31
North Dakota	131	- 1	-	_	-	-	-	-	-	2	30
South Dakota	58	-	-	-	1	-	-	-	-	-	-
Nebraska	33	-	-	-	-	-	-	-	-	1	6
Kansas	218	-	-	-	1	-	-	-	-	-	7
SOUTH ATLANTIC	1,309		2	,	,	,	,,			_	
Delaware	1,309	_	_	1 -	4 -	1	11	-	2	5	91
Maryland	*220	_	_		_	_	3	_			2
Dist. of Columbia	2	_	_	_	-	_	_	_	_	_	_
Virginia	542	-	1	1	1	1	2	-	2	3	50
West Virginia	213	-	-	-	-	-	-	-	-	1	10
North Carolina	19	-	1	-	2	-	2	-	-	-	2
South Carolina	97	-	-	-	-	-	-	-	-	-	-
Georgia	13	-	-	-	1	-	1	-	-	1	6
Florida	199	-	-	-	-	-	3	-	-	-	21
EAST SOUTH CENTRAL	1,451	_	2	-	3	_	7	_	1	11	261
Kentucky	86	-	-	-	1	_	1	-		7	117
Tennessee	1,082	-	-	-	2	-	5	-	-	4	134
Alabama	198	-	1	-	-	-	-	-	-	-	10
Mississippi	85	-	1	-	-	-	1	-	1	-	-
WEST SOUTH CENTRAL	662	2	-				2			16	1/5
Arkansas	662 24	2 -	5 -	-	-	-	2	-	-	16	145
Louisiana	5	2	4	_	_	_	1	_		4	15 18
Oklahoma	*108	_	_	_	_		1	_		*8	44
Texas	525	-	1	-	-	-	_	%=	-	4	68
MOUNTAIN	2,504	-	-	-	2	1	1 .	-	-	-	10
Montana	71 94	-	-	-	-	-	-	-	-	-	-
Idaho	*272	-	-	-	_	-		-	-	-	- 1
Colorado	1,518	-	-		1	1	1 -	-	-	-	1
New Mexico	241	_	_	_	-	-	-			-	4
Arizona	*201	-	-	-	-	-	_	_	_	-	5
Utah	107	-	-	-	1	-	-	-	- '	-	-
Nevada	-	-	-	-	-	-	-	-	-	-	-
PACIFIC	1,559	_	5	_			,			,	/ 2
Washington	401	-	5 -	_	-		4		-	6	43
Oregon	183	_	-	-	_	_				_	-
California	8 5 9	-	5	-	-	-	4	-	-	6	43
Alaska	23	-	-	-	-	-	-	-	-	-	-
Hawaii	93	-	-	-	-	-	-	-	-	-	
Puerto Rico	11	_								2	0
	11	-	-	-	-	-	-			2	8

\*Delayed reports: SST:

SST: Me. 24, Md. 22 cases 1967, Okla. 44, Wyo. 165, Ariz. 79
Rky. Mt. Spotted Fev.: Tex. 1 case 1967
Rabies in Animals: Okla. 4

Week No.

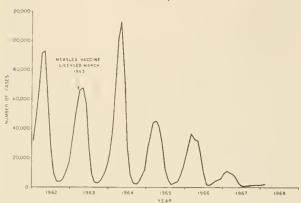
# TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED MARCH 16, 1968

11

11 (1	(By place of occurrence and week of filing certificate. Excludes fetal deaths)									
	All Ca	uses	Pneumonia	Under		All Ca	uses	Pneumonia	Under	
Area	A11	65 years	and	1 year	Area	A11	65 years	and	1 year	
	Ages	and over	Influenza All Ages	All Causes		Ages	and over	Influenza All Ages	All Causes	
NEW ENGLAND: Boston, Mass	782 241	484 138	54 18	26 7	SOUTH ATLANTIC: Atlanta, Ga	1,248 133	683 68	48 4	66 8	
Bridgeport, Conn	56	29	7	3	Baltimore, Md	250	133	7	16	
Cambridge, Mass	36	25	-	1	Charlotte, N. C	47	19	-	1	
Fall River, Mass	34	22	- 2	- /	Jacksonville, Fla	75	36	3 1	3	
Hartford, Conn Lowell, Mass	65 39	37 25	6	4	Miami, Fla Norfolk, Va	135 59	87 24	6	7	
Lynn, Mass	22	16	1	-	Richmond, Va	84	55	-	1	
New Bedford, Mass	27	20	1	-	Savannah, Ga	41	20	2	4	
New Haven, Conn Providence, R. I	50 66	32 43	1 7	2 3	St. Petersburg, Fla Tampa, Fla	99 85	79 55	4 5	3 4	
Somerville, Mass	12	10	2		Washington, D. C	212	94	15	15	
Springfield, Mass	54	32	5	4	Wilmington, Del	28	13	1	-	
Waterbury, Conn Worcester, Mass	25 55	15 40	4	1	EAST SOUTH CENTRAL:	578	332	19	26	
mercecet, mass	33		•	-	Birmingham, Ala	111	64	1	2	
MIDDLE ATLANTIC:	3,485	2,102	157	117	Chattanooga, Tenn	45	23	3	2	
Albany, N. YAllentown, Pa	38 32	23 20	2 1	3 2	Knoxville, Tenn Louisville, Ky	34 88	21 61	1 5	2 3	
Buffalo, N. Y	150	87	1	3	Memphis, Tenn	130	72	1	6	
. Camden, N. J	39	20	3	3	Mobile, Ala	47	26	-	3	
Elizabeth, N. J Erie, Pa	39 41	24 27	3	1	Montgomery, Ala Nashville, Tenn	31	17	6	2	
Jersey City, N. J	78	44	8	3	naonvale, remi-	92	48	2	6	
Newark, N. J	65	33	8	3	WEST SOUTH CENTRAL:	1,307	673	61	74	
New York City, N. Y Paterson, N. J	1,868	1,117	68	59	Austin, Tex	53	34	3	3	
Philadelphia, Pak	26 516	18 303	3 17	19	Baton Rouge, La Corpus Christi, Tex	36 38	19 18	1 -	1 2	
Pittsburgh, Pa	186	110	10	7	Dallas, Tex	165	85	7	11	
Reading, Pa	53	38	4		El Paso, Tex	44	18	5	7	
Rochester, N. Y Schenectady, N. Y	104 32	66 27	9	4	Fort Worth, Tex Houston, Tex	87 248	51 112	5 10	15	
Scranton, Pa	39	29	3		Little Rock, Ark	66	46	5	2	
Syracuse, N. Y	61	36	1	4	New Orleans, La	206	95	6	7	
Trenton, N. J	48	30	2	3	Oklahoma City, Okla San Antonio, Tex	99	53	4	6	
Utica, N. YYonkers, N. Y	31 39	21 29	5 6	2.	Shreveport, La	130 62	63 39	4	10	
,	3,		Ů		Tulsa, Okla	73	40	7	3	
EAST NORTH CENTRAL: Akron, Ohio	2,632	1,494	103	155	MOUNTAIN:	106				
Canton, Ohio	50 39	27 17	6	4 3	Albuquerque, N. Mex	486 37	272 20	19	18	
Chicago, Ill	755	400	33	43	Colorado Springs, Colo.	23	9	-	5	
Cincinnati, Ohio	175	125	8	7	Denver, Colo	138	76	8	3	
Cleveland, Ohio Columbus, Ohio	233 117	121 65	3	19 8	Ogden, Utah Phoenix, Ariz	22 113	13 57	2	1 1	
Dayton, Ohio	74	49	4	4	Pueblo, Colo	22	14	2	-	
Detroit, Mich	399	231	3	20	Salt Lake City, Otah	60	38	3	5	
Evansville, Ind Flint, Mich	45 54	26 30	8	3	Tucson, Ariz	71	45	3	-	
Fort Wayne, Ind	38	21	5	3	PACIFIC:	1,565	937	43	74	
Gary, Ind	38	15	5	9	Berkeley, Calif	17	12	-	-	
Grand Rapids, Mich Indianapolis, Ind	51 143	22 90	5 2	2 5	Fresno, CalifGlendale, Calif	51	27	1 1	1	
Madison, Wis	30	13	2	4	Honolulu, Hawaii	42 46	27 25	2	3	
Milwaukee, Wis	134	80	1	3	Long Beach, Calif	78	49	2	4	
Peoria, Ill Rockford, Ill	38 17	17 9	3 4	5 2	Los Angeles, Calif Oakland, Calif	535	332	17	24	
South Bend, Ind	44	24	2	3	Pasadena, Calif	89 39	56 29	1 2	5 -	
Toledo, Ohio	97	66	4	2	Portland, Oreg	90	56	2	4	
Youngstown, Ohio	61	46	2	2	Sacramento, Calif San Diego, Calif	51	34	1	-	
WEST NORTH CENTRAL:	846	540	33	46	San Francisco, Calif	101 176	53 89	3 4	8 14	
Des Moines, Iowa	60	44	1	3	San Jose, Calif	38	23	2	2	
Duluth, Minn	32	20	1		Seattle, Wash	135	79	3	8	
Kansas City, Kans Kansas City, Mo	37 133	19 84	4 2	5 11	Spokane, Wash Tacoma, Wash	43 34	26 20	1	1	
Lincoln, Nebr	41	30	1	2		34	20	1	-	
Minneapolis, Minn	99	61	1	2	Total	12,929	7,517	537	602	
Omaha, Nebr St. Louis, Mo	80 249	49 154	1 12	13	Cu	mulative To	otals			
St. Paul, Minn	72	49	4	3	including report			revious we	eks	
Wichita, Kans	43	30	6	3	A11 Causes A11 Acce			15/ 5	. 7	
					All Causes, All Ages All Causes, Age 65 and					
					Pneumonia and Influenza	, All Ages-		8,47	4	
*Estimate - based on a	verage perc	ent of div	visional to	tal.	All Causes, Under 1 Yea	r of Age		6,71	4	

The alternating pattern of "high" and "low" years of reported measles cases has changed in recent years (Figure 1). In general, the nine geographic divisions of the United States reflect a similar change since the widespread use of measles vaccine beginning in 1964.

Figure 1 REPORTED CASES OF MEASLES BY 4-WEEK PERIODS UNITED STATES, 1962-1968



(Reported by State Services Section and Statistics Section, \CDC.)

### INTERNATIONAL NOTES QUARANTINE MEASURES

Additional Immunization Information for International Travel, 1967-68 edition, Public Health Service Publication No. 384

The following information should be included in Section 5:

### **AMERICA**

### Brazil - Page 42

Insert: Vaccination against poliomyelitis is required\* from children 3 months to 6 years of age (a) when a visa is needed for entry into Brazil, (b) when the child is a national of Brazil. The dosage of vaccine must be clearly indicated on the Certificate.

### Cayman Islands - Page 43

Insert Cayman Islands and add the following information: Smallpox vaccination is required from all arrivals, except arrivals from Jamaica and the United States of America.

### El Salvadar — Page 45

Add under yellow fever; Yellow fever vaccination is required for all arrivals age 6 months and over when arriving from infected local areas.

### Trinidad and Tobaga - Page 49

Delete all information concerning smallpox, Insert; Smallpox vaccination required from all arrivals.

THE MORBIDITY AND MORTALITY WEEKLY REPORT WITH A CIRCULA-TION OF 17,000 IS PUBLISHED AT THE NATIONAL COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGIA.

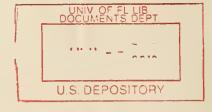
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NATIONAL COMMUNICABLE DISEASE CENTER ATLANTA, GEORGIA 30333 THE EDITOR MORBIDITY AND MORTALITY WEEKLY REPORT

NDTE: THE DATA IN THIS REPDRT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE NCOC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS THE REPDRTING WEEK CONCLUDES ON SATURDAY; COMPILED DATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIDAY

BUREAU OF DISEASE PREVENTION AND ENVIRONMENTAL CONTROL HEALTH, EDUCATION, AND WELFARE COMMUNICABLE ATLANTA, GEORGIA 30333 PUBLIC HEALTH SERVICE NATIONAL DISEASE CENTER

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<sup>\*</sup>Conformity of the measure with the Regulations may be open to que tion; the World Health Organization is in communication with the health administration concerned.